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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/538,748 | 12/22/2005 | Yves Dordet | 0563-1044 | 5071 |
| <small>465</small> YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314 | | | <small>7590</small> EXAMINER FAYYAZ, NASHMIYA SAQIB | |
| | | | <small>03/25/2009</small> ART UNIT 2856 | PAPER NUMBER |
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/538,748

Applicant(s)

DORDET, YVES

Examiner

Nashmiya S. Fayyaz

Art Unit

2856

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 February 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8-14 and 17-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 8-14 and 17-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/S508)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

3. Claims 8-14 and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bartley-US Patent # 5,823,802. As to claims 8 and 18, Bartley discloses a device (cylinder pressure sensor 10) for detecting pressure in internal combustion engine 11 cylinder head and passing through a wall of engine 11 in orifice (channel 14), spark plug 23 in the orifice extending from inside to outside the cylinder, the spark plug 23 being movable (note col. 4, lines 44-53 indicating the spark plug is removable), collar (sleeve 12 with shell 22, bonnet 24), spark plug 23 with a confronting portion (spark plug connector 25), pressure sensitive

means (sensing element 16), nut/fixed member portion??? (guard ring 40) for removal of connector 25 for removal of the spark plug 23, see fig. 1 and col. 2, lines 3 et seq. Further, it is noted that Bartley does not specifically state that the pressure sensitive means 16 senses the pressure generated by the displacement of the spark plug and the actual description of the pressure being sensed is apparently omitted in the description. However, it is noted that the purpose of cylinder pressure sensor is to measure pressure in the cylinder in which the spark plug is mounted. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have determine that the pressure being measured is being generated by the displacement of the spark plug given that it is old and well-known that a cylinder pressure sensor is designed to measure the pressure on a spark plug in a cylinder. As to claim 9, the ring 40 indicates an annular shape as well as the connector 25 and pressure sensitive means 16 appear to be annular. As to claim 10, note fig. 1 depiction. As to claim 11, the connector 25 is on a side of the element opposite the wall. As to claim 12, the two portions do appear to be of greater diameter than the bottom portion of the orifice. As to claim 13, each of these elements are outside of the bottom orifice. As to claim 14, note threading on shell 22. As to claims 17 and 19, note ring 40 appears to be a nut.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 8-14 and 17-19 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 8 and 18, it appears that the spark plug is part of the device for detecting. The spark plug seems to be any spark plug and not actually part of the device for detecting. Perhaps a combination of the detecting device and a spark plug should be claimed. On lines 20-22, if the "portion" is a "fixed" member portion, how then is it also "releasable"? Also, how then is this related to the "nut" of line 24? Please clarify what is the "portion", "fixed member portion" and "nut". In claim 9, what does "said fixed portion" refer to? In claim 17, is this a different "nut" from claim 8? In claim 18, on line 3, there is recited "a cylinder head wall a wall" which is unclear. Therefore, each subsequent incidence of "said wall" lacks clear antecedent basis. In claim 19, it appears a nut and collar were previously defined in claim 18.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nashmiya S. Fayyaz whose telephone number is 571-272-2192. The examiner can normally be reached on Tuesdays and Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron E. Williams can be reached on 571-272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/N. S. F./

Examiner, Art Unit 2856

/Hezron Williams/

Supervisory Patent Examiner, Art Unit 2856